

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
(Attorney Docket No. 42697.147 US2)

In re Application of:	Roy G. Gordon et al.	)	Examiner: To Be Assigned
		)	
Serial No.	To Be Assigned	)	Group Art Unit: To Be Assigned
		)	
Filing Date:	Herewith	)	

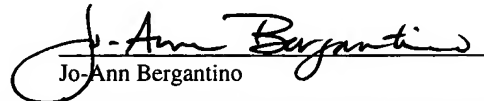
For: **VAPOR DEPOSITION OF TUNGSTEN NITRIDE**

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Dear Sir:

Applicants submit herewith the references listed on the attached Form PTO-1449, copies of which are enclosed. This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97 (b)(3), before the mailing date of a first Office Action on the merits, therefore no fee is believed to be due.

This submission does not represent that a search has been made and does not constitute an admission that the listed documents are material to the patentability of the invention, or that the listed document is prior art. Applicants reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application. If it should be determined that any of the listed documents constitute prior art under United States law, Applicants reserve the right to present to the Office relevant facts and law regarding the significance of such documents to the patentability of the claimed invention.

It is respectfully requested that the Examiner initial and return a copy of the attached Form PTO-1449 with the next Patent Office communication.

Information Disclosure Statement  
Attorney Docket No. 42697.147 US2  
Page 2

Please charge any fees that might be due in connection with this matter to Deposit Account Number 08-0219. If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted,

Date: January 6, 2005  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

**Complete if Known**

Application Number	TBA
Filing Date	January 6, 2005
First Named Inventor	Roy G. Gordon
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	42697.147 US2

Sheet	1	of	1
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**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-6,359,160 B1	03/19/2002	Sun et al.	
		US-2001/041250 A1	11/15/2001	Haukka et al.	
		US-2001/054730 A1	12/27/2001	Kim et al.	
		US-2001/002280 A1	05/31/2001	Sneh	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		EP-1067595 A	01/10/2001	Air Prod & Chem	
		WO-01/27347 A	04/19/2001	ASM Microchemistry OY	
		WO-02/27063 A	04/04/2002	President and Fellows of Harvard College	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BECKER, J. S. et al., "DIFFUSION BARRIER PROPERTIES OF TUNGSTEN NITRIDE FILMS GROWN BY ATOMIC LAYER DEPOSITION FROM BIS (TERT-BUTYLIMIDO) BIS (DIMETHYLAMIDO) TUNGSTEN AND AMMONIA" Applied Physics Letters, American Institute of Physics, New York, US, vol. 82, no. 14, April 7, 2003, pages 2239-2241.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is established to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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